

# KADIR ALTUNEL

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## Skills

- Python, R and SQL Programming
- Data Visualization
- Advanced Analytics
- Business Intelligence
- Machine Learning
- Data Pipeline Design

## Experience

**Data Scientist**, 12/2017 - Present

**Marriott** - Bloomsburg, PA

- Utilized Python for in-depth analysis of guest booking trends, developing a predictive model for room demand that informed strategic pricing adjustments and a 15% revenue lift.
- Leveraged statistical methods such as regression analysis and ANOVA to evaluate guest satisfaction surveys, uncovering actionable insights that improved online reviews by 10%.
- Centralized guest data from multiple sources such as CRM and PMS by designing an SQL database leading to an increase in guest satisfaction by 5% and freeing up 10+ hours of staff time weekly.
- Developed an ML model to optimize group pricing strategies by analyzing historical group booking data and seasonality trends, resulting in 15% increase in group bookings and 10% increase in group revenue.

**Data Science Intern**, 12/2022 - 03/2023

**Columbia Montour Chamber of Commerce** - Bloomsburg, PA

- Developed a predictive model with time-series and clustering analysis to identify at-risk schools during and after COVID-19 epidemic, enabling proactive interventions and a 10% reduction in course failures.
- Created interactive data visualizations using Python and R to illustrate the impact of COVID-19 epidemic on student learning, informing data-driven decisions that led to an 8% improvement in standardized test scores.
- Presented comprehensive exam results analysis to school administrators, highlighting areas for improvement and driving strategic curricular adjustments that resulted in a 10% increase in student success in 6 months.

**Data Analytics Associate**, 11/2015 - 08/2016

**Reimbursement Technologies Inc.** - Conshohocken, PA

- Spearheaded the implementation of OCR software to automate the upload of patient visit histories, reducing manual entry time by 50% and improving data accessibility for billing staff.
- Implemented a suite of SQL queries to automate the extraction of relevant patient data for billing, resulting in a 98% accuracy rate for reimbursements and 15% decrease annually in manual review costs.
- Maintained a robust database system in compliance with HIPAA that seamlessly integrated with the company's billing software, resulting in a 15% increase in billing efficiency and a 10% reduction in claim denial rates.

## Projects

- <https://github.com/KadirOrcunAltunel/ComputerVisionProject>: Created a deep convolutional neural network that has the ability to recognize facial expressions from a video feed with 78% accuracy.
- <https://github.com/KadirOrcunAltunel/PhishingDetection>: Leveraged XGBoost to create a phishing detection algorithm that has the ability to detect phishing URLs with 98% accuracy.

## Education

**M.S.:** Computer Science (AI and ML Specialization), 2025 - **New Jersey Institute of Technology**

**B.S. (Double Major):** Data Science and Cybersecurity, 2023 - **Bloomsburg University of Pennsylvania**

## Certifications

**Google Data Analytics by Google:** Issued by Coursera, 2023 (ID: TDDLMTBV63R4)